WHAT IS CLAIMED IS:

A flat panel display comprising:

a faceplate;

a backplate combined with the faceplate to form a vacuum tight cell;

an image production unit provided within the cell to produce display images from the cell;

a plurality of spacers mounted within the cell such that the spaces are placed at a non-display area, the spacers being held between the faceplate and the backplate; and

a pair of alignment members connected to the spacers in a body to align the spacers at the non-display area in a constant manner.

- 2. The flat panel display of claim 1 wherein each alignment member is connected to one-sided end portions of the spacers.
- 3. The flat panel display of claim 1 wherein the spacers are longitudinally placed along each one side of the plates parallel to each other.
- 4. The flat panel display of claim 1 further comprising a pair of subsidiary alignment members the subsidiary alignment members are arranged perpendicular to the alignment members to form a rectangular frame.
- 5. The flat panel display of claim 1 wherein each spacer is provided with a plurality of exhaust proves.
- 6. The flat panel display of claim 5 wherein the exhaust grooves are arranged at the spacer in the longitudinal direction while being spaced apart from each other with a predetermined distance.

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- 7. The flat panel display of claim 5 wherein each spacer is provided with a plurality of grooves for preventing image distortion.
- 8. The flat panel display of claim 7 wherein the image distortion preventing grooves are arranged at the spacer in the longitudinal direction while being spaced apart from each other with a predetermined distance.
- 9. The flat panel display of claim 7 wherein the exhaust grooves and the image distortion preventing grooves are symmetrical to each other with respect to the longitudinal center line of the spacer.
- 10. The flat panel display of claim 1 wherein each alignment member is formed with a plurality of exhaust grooves.
- 11. The flat panel display of claim 10 wherein the exhaust grooves are arranged at the alignment member in the longitudinal direction.
- 12. The flat panel display of claim 11 wherein the exhaust grooves are arranged symmetrical to each other with respect to the longitudinal center line of the alignment member.
- 13. The flat panel display of claim 4 wherein each subsidiary alignment member is provided with a plurality of exhaust grooves.
- 14. The flat panel display of claim 13 wherein the exhaust grooves are arranged at the subsidiary alignment member in the longitudinal direction while being spaced apart from each other with a predetermined distance.
- 15. The flat panel display of claim 14 wherein the exhaust grooves are arranged symmetrical to each other with respect to the longitudinal center line of the subsidiary alignment member.

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a plurality of cathode electrodes formed at the backplate with a predetermined pattern;

an insulating layer formed at the backplate, the insulating layer having a plurality of breakthrough holes placed on the cathode electrodes;

a plurality of emitters contacting the cathode electrodes, each emitter being disposed within each breakthrough hole;

a plurality of gate electrodes formed on the insulating layer with a predetermined pattern, the gate electrodes having opening portions communicated with the breakthrough holes;

an anode electrode formed on the faceplate while facing the gate electrodes; and

a plurality of phosphor layers formed on the anode electrode with a predetermined pattern.

17. The flat panel display of claim 1 wherein the vacuum degree of the cell is kept to be 10⁻⁷ torr.

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